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1 Structuring QoS-supporting services with smart proxies

Rainer Koster, Thorsten Kramp

 April 2000 **IFIP/ACM International Conference on Distributed systems platforms**

 Full text available: [pdf\(271.48 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

While middleware platforms have been established in best-effort environments nowadays, support for QoS-sensitive services is still found lacking. More specifically, due to the high diversity of QoS requirements, the abstractions provided for QoS-unaware services cannot be maintained and the developer has to face the difficulties of low-level networking in heterogeneous environments again. In this paper, we therefore propose the notion of *smart proxies* as an effective means for making t ...

2 Technical correspondence: Smart proxies for Jini services

Pascal Ledru

 April 2002 **ACM SIGPLAN Notices**, Volume 37 Issue 4

 Full text available: [pdf\(280.02 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Jini has been advertised as a self-healing infrastructure where both services and consumers of these services come and go. However, it does not explicitly address the issue of how to recover when a consumer communicates with a service, which suddenly fails. This paper presents how smart proxies can be implemented in a Jini environment, allowing a client to transparently reconnect to another instance of a service in case of a failure. An important feature of the Java language: dynamic proxy is us ...

3 Position statements: Infopipes for composing distributed information flows


Rainer Koster, Andrew P. Black, Jie Huang, Jonathan Walpole, Calton Pu

 October 2001 **Proceedings of the 2001 international workshop on Multimedia middleware**

 Full text available: [pdf\(422.12 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)


Building applications that process information flows on existing middleware platforms is difficult, because of the variety of QoS requirements, the need for application-specific protocols, and the poor match of the commonly used abstraction of remote invocations to streaming. We propose Infopipes as a high-level abstraction for building blocks that handle information flows. The ability to query individual Infopipe elements as well as composite Infopipes for properties of supported flows enables ...

Keywords: Smart Proxies, distributed setup, infopipes, information flow, quality of service


- 4 Session 14: middleware support for multimedia: A pluggable service-to-service communication mechanism for home multimedia networks 
Jin Nakazawa, Hideyuki Tokuda
December 2002 **Proceedings of the tenth ACM international conference on Multimedia**


Full text available:  pdf(436.61 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

This paper proposes a pluggable service-to-service (S2S) communication mechanism in a middleware for home networks, called Virtual Networked Appliance (VNA) architecture. In the architecture, service description method and the plug-gable S2S communication mechanism are separated in an orthogonal way. Through the separation, VNA architecture solved problems of home networks on which users have to operate multiple heterogeneous middleware technologies simultaneously: middleware fragmentation probl ...


- 5 A high performance cluster JVM presenting a pure single system image 
Y. Aridor, M. Factor, A. Teperman, T. Eilam, A. Schuster
June 2000 **Proceedings of the ACM 2000 conference on Java Grande**


Full text available:  pdf(916.33 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

- 6 System support for object groups 
Rachid Guerraoui, Pascal Felber, Benoît Garbinato, Karim Mazouni
October 1998 **ACM SIGPLAN Notices , Proceedings of the 13th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications**, Volume 33 Issue 10

Full text available:  pdf(2.12 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper draws several observations from our experiences in building support for object groups. These observations actually go beyond our experiences and may apply to many other developments of object based distributed systems. Our first experience aimed at building support for Smalltalk object replication using the Isis process group toolkit. It was quite easy to achieve group transparency but we were confronted with a strong mismatch between the rigidity of the process group model and the fle ...

- 7 Virtual machine monitors: Xen and the art of virtualization 
Paul Barham, Boris Dragovic, Keir Fraser, Steven Hand, Tim Harris, Alex Ho, Rolf Neugebauer, Ian Pratt, Andrew Warfield
October 2003 **Proceedings of the nineteenth ACM symposium on Operating systems principles**

Full text available:  pdf(168.76 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Numerous systems have been designed which use virtualization to subdivide the ample resources of a modern computer. Some require specialized hardware, or cannot support commodity operating systems. Some target 100% binary compatibility at the expense of performance. Others sacrifice security or functionality for speed. Few offer resource isolation or performance guarantees; most provide only best-effort provisioning, risking denial of service. This paper presents Xen, an x86 virtual machine monit ...

Keywords: hypervisors, paravirtualization, virtual machine monitors

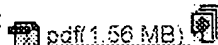
- 8 Technical papers: software design: DADO: enhancing middleware to support 

crosscutting features in distributed, heterogeneous systems

Eric Wohlstadter, Stoney Jackson, Premkumar Devanbu

May 2003 **Proceedings of the 25th international conference on Software engineering**

Full text available:



pdf(1.56 MB)

Additional Information: [full citation](#), [abstract](#), [references](#)[Publisher Site](#)

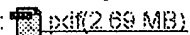
Some "non-" or "extra-functional" features, such as reliability, security, and tracing, defy modularization mechanisms in programming languages. This makes such features hard to design, implement, and maintain. Implementing such features within a single platform, using a single language, is hard enough. With distributed, heterogeneous (DH) systems, these features induce complex implementations which cross-cut different languages, OSs, and hardware platforms, while still needing to share data and ...

9 DeepView: a channel for distributed microscopy and informatics

B. Parvin, J. Taylor, G. Cong, M. A. O'Keefe, M. H. Barcellos-Hoff

January 1999 **Proceedings of the 1999 ACM/IEEE conference on Supercomputing (CDROM)**

Full text available:



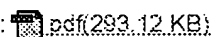
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Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)10 Customizing IDL mappings and ORB protocols

Girish Welling, Maximilian Ott

April 2000 **IFIP/ACM International Conference on Distributed systems platforms**

Full text available:



pdf(293.12 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

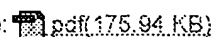
Current mappings of IDL to implementation languages such as C++ or Java use CORBA specific data-types, which makes it imperative for an object implementation to be CORBA-compliant. While being completely CORBA-compliant ensures portability and interoperability, several classes of enterprise applications may *only* require interoperability with other CORBA applications. Other applications may be constrained by such factors as a large existing code-base or a widely used communicatio ...

11 Distributed object implementations for interactive applications

Vijaykumar Krishnaswamy, Ivan B. Ganev, Jaideep M. Dharap, Mustaque Ahamad

April 2000 **IFIP/ACM International Conference on Distributed systems platforms**

Full text available:



pdf(175.94 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

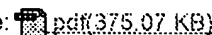
As computers become pervasive in the home and community and homes become better connected, new applications will be deployed over the Internet. Interactive Distributed Applications involve users in multiple locations, across a wide area network, who interact and cooperate by manipulating shared objects. A timely response to user actions, which can potentially update the state of the objects, is an important requirement of interactive applications. Because of the inherent heterogeneity of the ...

12 Session 2 (short papers): system and practical issues: A framework for flexible evolution in distributed heterogeneous systems

Eric Wohlstadter, Brian Toone, Prem Devanbu

May 2002 **Proceedings of the international workshop on Principles of software evolution**

Full text available:



pdf(375.07 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Distributed, heterogeneous systems are becoming very common, as globalized organizations integrate applications running on different platforms, possibly written in different languages. Certain requirements for such features as security, QoS, and flexible administration are specially critical to distributed heterogeneous systems. Unfortunately,

such requirements are often formulated late, since they depend upon a particular installation, and/or change rapidly with business and political climate. ...

13 OS customization: An infrastructure for application-specific customization

Arindam Banerji, David L. Cohn

September 1994 **Proceedings of the 6th workshop on ACM SIGOPS European workshop: Matching operating systems to application needs**



Full text available:  [pdf\(570.66 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

As application requirements diverge, it is becoming increasingly clear that the *one size fits all* operating system design strategy is obsolete. Customizable system services would allow application-specific optimizations, and various customization strategies have been proposed. These vary widely and, depending on the required level of application-developer involvement, can be categorized as *parametric variation*, *interposition* or *synthesis* methods. We present a common architect ...

14 A paradigm shift in the distribution of multimedia

Gerard Parr, Kevin Curran

June 2000 **Communications of the ACM**, Volume 43 Issue 6

Full text available:  [pdf\(226.87 KB\)](#)  [html\(33.72 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

15 Java and distributed object models: an analysis

Marjan Hericko, Matjaz B. Juric, Ales Zivkovic, Ivan Rozman, Tomaz Domajnko, Marjan Krisper
December 1998 **ACM SIGPLAN Notices**, Volume 33 Issue 12

Full text available:  [pdf\(871.07 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Java has an important role in building distributed object oriented web enabled applications. In the article an analysis of two distributed object models in context of Java language is presented. Several aspects of RMI and CORBA such as features, maturity, support for legacy systems, learning curve and ease of development are compared. A special emphasis is given to the performances. Different testing scenarios give a complete overview about real world performances of both architectures. Based on ...

Keywords: CORBA, Java, RMI, distributed objects, performances

16 CORBA and the WWW

Henry Balen


January 1997 **Addendum to the 1997 ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications (Addendum)**

Full text available:  [pdf\(498.82 KB\)](#) Additional Information: [full citation](#), [index terms](#)

17 Turning light bulbs into objects


Bernd Bruegge, Truman Fenton, Tae Wook Kim, Ricardo Pravia, Aseem Sharma, Benedict Fernandes, Seongju Chang, Volker Hartkopf

January 1997 **Addendum to the 1997 ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications (Addendum)**

Full text available:  [pdf\(663.50 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

18 Lessons learned from implementing the CORBA persistent object service





Jan Kleindienst, František Plášil, Petr Tůma

October 1996 **ACM SIGPLAN Notices , Proceedings of the 11th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications**, Volume 31 Issue 10Full text available:  pdf(2.16 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, the authors share their experiences gathered during the design and implementation of the CORBA Persistent Object Service. There are two problems related to a design and implementation of the Persistence Service: first, OMG intentionally leaves the functionality core of the Persistence Service unspecified; second, OMG encourages reuse of other Object Services without being specific enough in this respect. The paper identifies the key design issues implied both by the intentional la ...

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